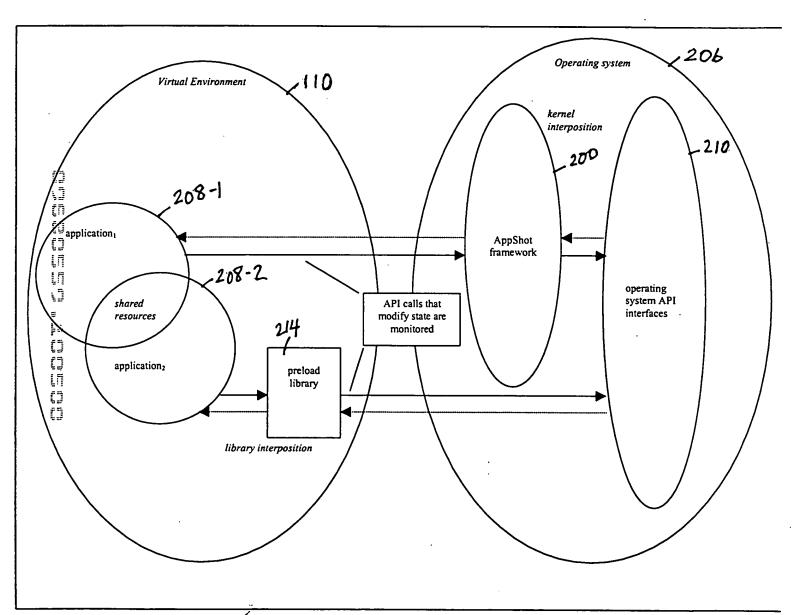


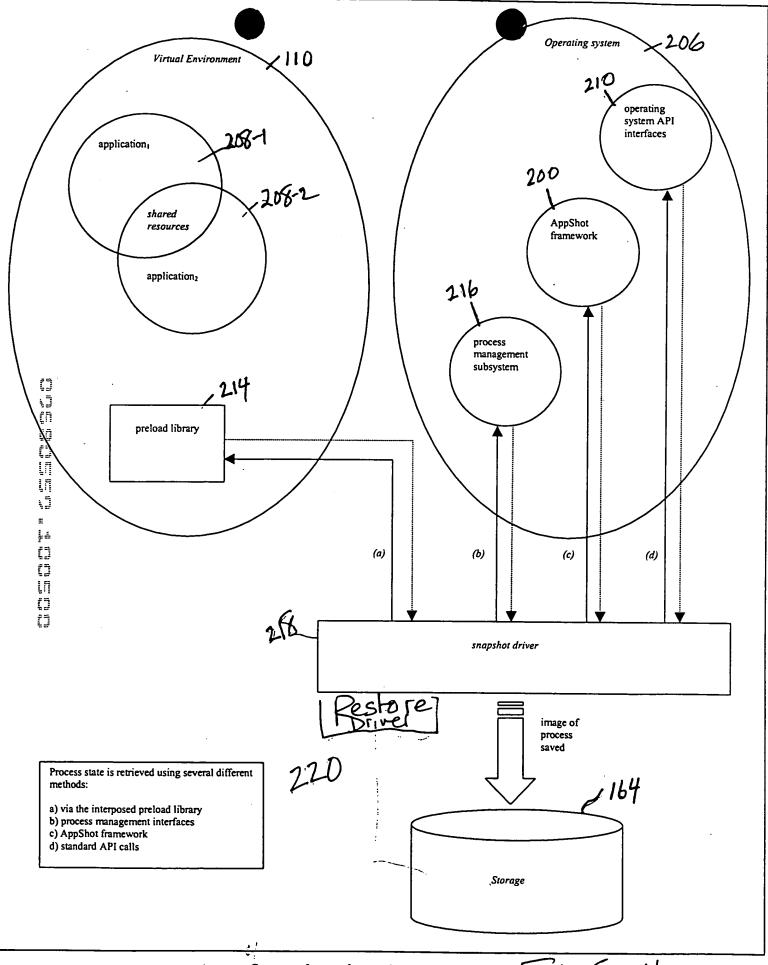
The above diagram illustrates the virtual network environments. Virtual Network Environment 1 contains one application WEB SITE 1, is defined by the Virtual Network Address 10.10.0.1 resides solely on computer 1. Virtual Network Environment 2 contains two applications, WEB SITE 2 and APP 2, and spans two computers, Computer 2 and Computer 3. The virtual network of VNE 2 is 10.10.2.0.

F14.1

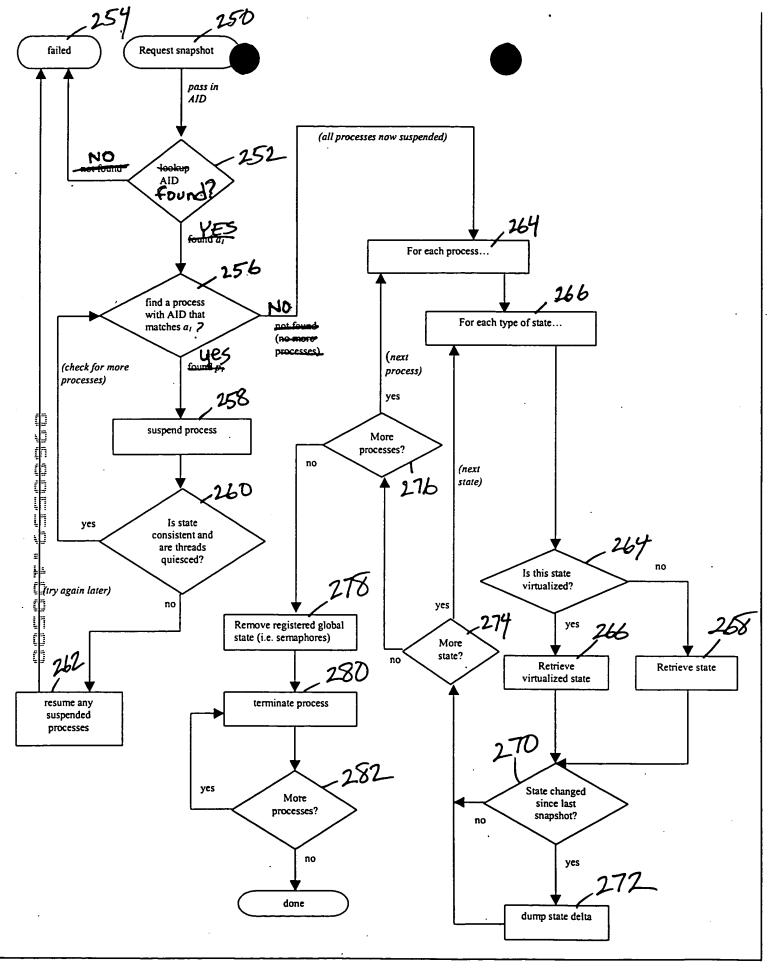
F16.2 150 152 Processor 154 Memory 158 Keyboard then deep than the there that the time than the think that the the the the 160 162 Monitor 164 166 CD ROM 168. 170



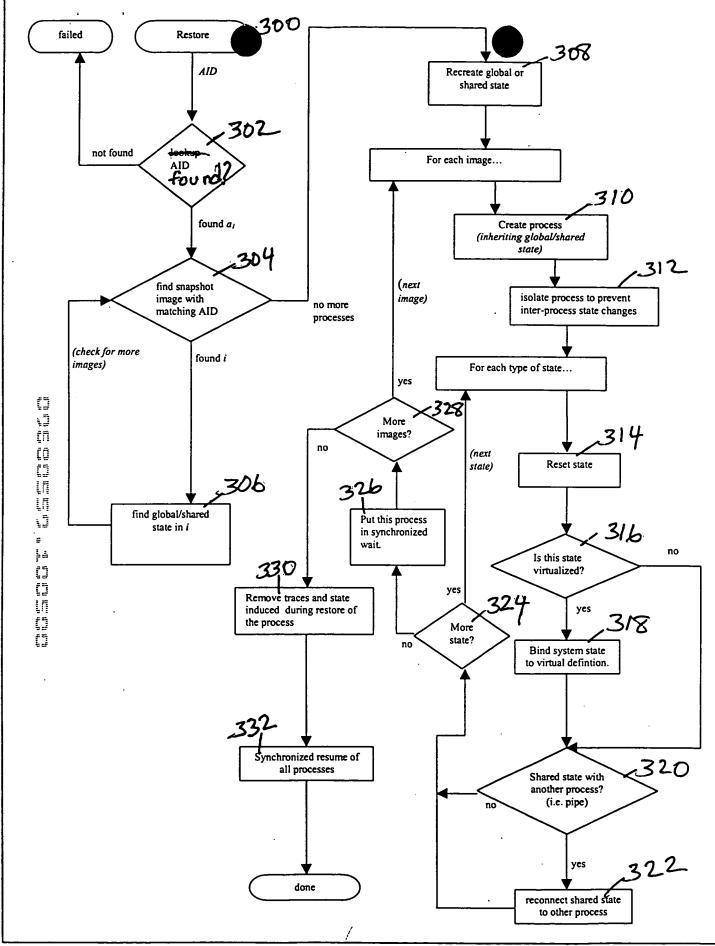
Tracking application state via library and kernel interposition.



Capture of an application's run-time state.



Flowchart of snapshot.

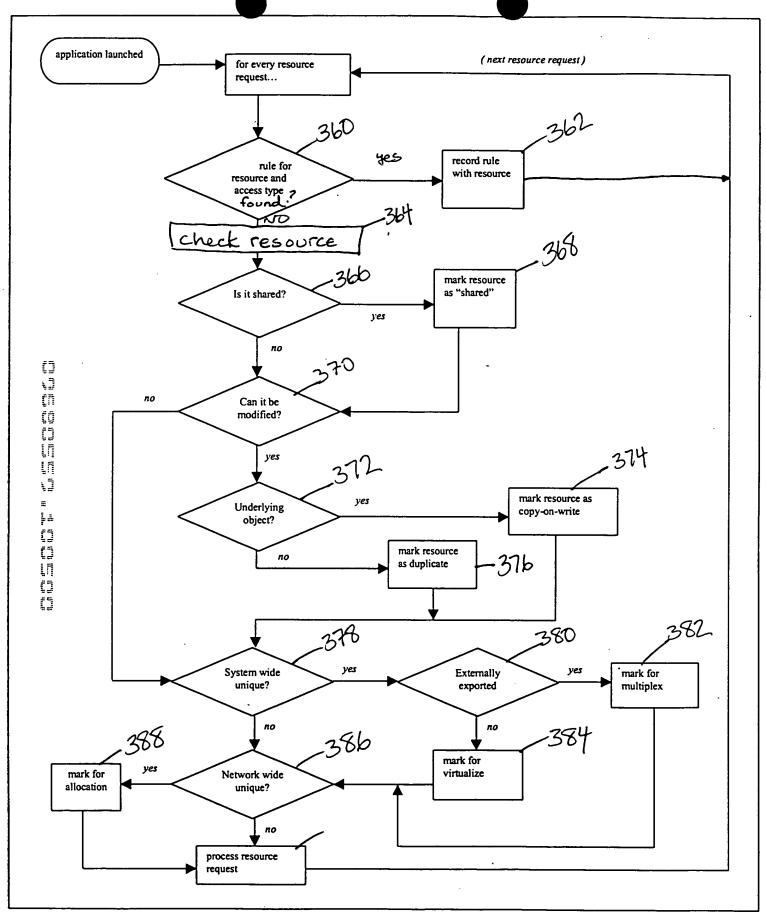


F146

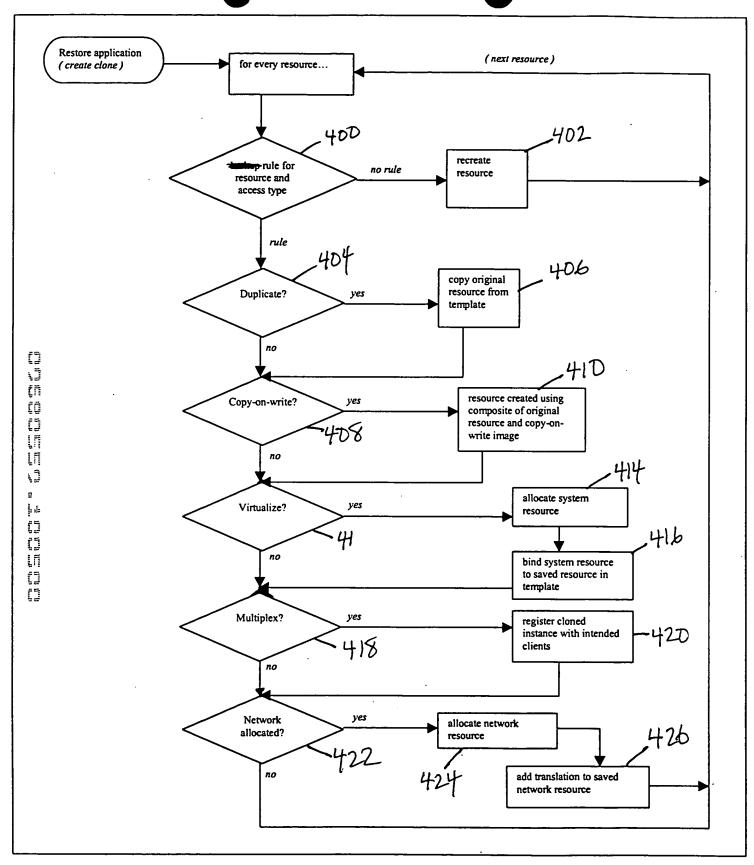
}

Resource Name Size  Resource Descriptor Size  Resource Dane  Resource Data  File Info Platform Name  Signal Info Data Oxeved Info  Current directory Process Status  Application Virt ID Credentials Info
Resource Type Resource Data Resource Data  Alarm Info Semaphore Info File Info Platform Name Signal Info Data Queved Info Current directory Process Status  Application Virt ID Credentials Info
Resource Data  Resource Data  Resource Data  Resource Data  Resource Data  Platform Name  Signal Info Data Queved Info  Current directory Process Status  Application Virt ID Credentials Info
Alarm Info Semaphore Info File Info Platform Name Signal Info Data Overed Info Current directory Process Status Application Virt ID Credentials Info
Alarm Info Semaphore Info File Info Platform Name Signal Info Data Overed Info Current directory Process Status Application Virt ID Credentials Info
File Info Platform Name Signal Info Data Overed Info Current directory Process Status Application Virt ID Credentials Info
File Info Platform Name Signal Info Data Overed Info Current directory Process Status Application Virt ID Credentials Info
File Info Platform Name Signal Info Data Overed Info Current directory Process Status Application Virt ID Credentials Info
Signal Into Data Overed Info Current directory Process Status Application Virt ID Credentials Info
Application Virt ID Credentials Info
Application Vit 1D/Credentiale Info
/\ \/
Application Virt Mask File Locking Info
Dynamic Symbolic Linklob Mmap Memory Info
resource limit Into Process Map Into
Snaghet who Schedule control into

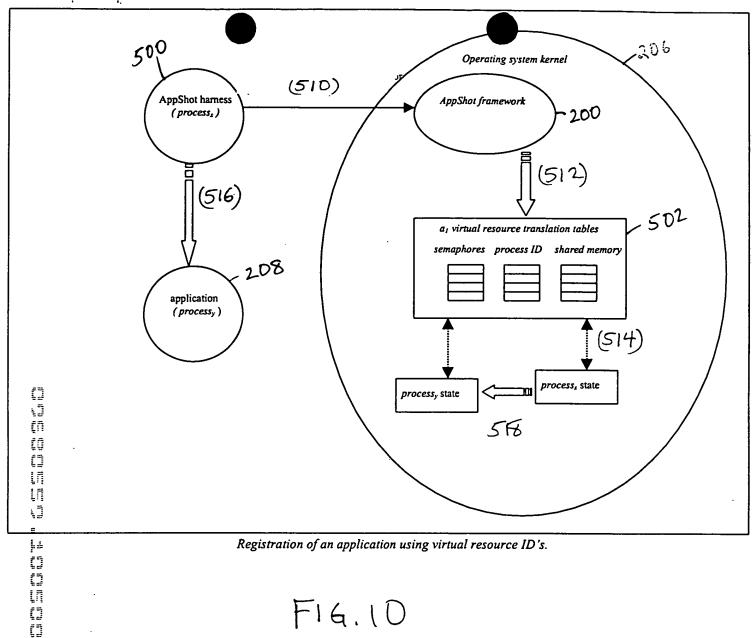
F16.7



F16.8

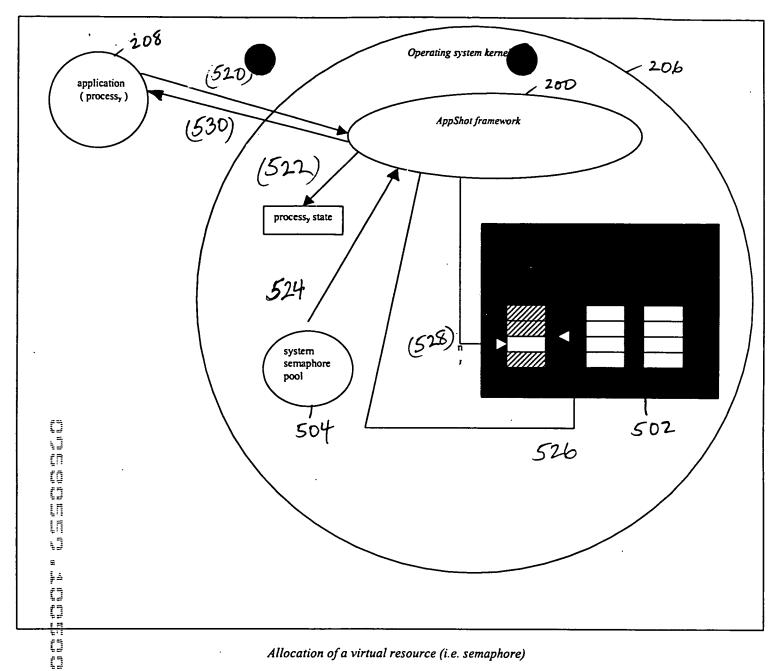


F16.9

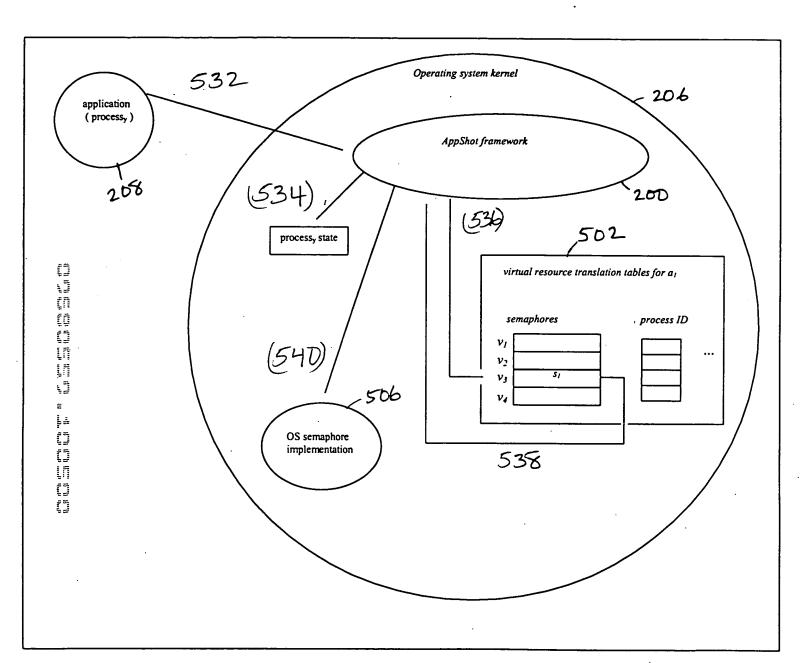


Registration of an application using virtual resource ID's.

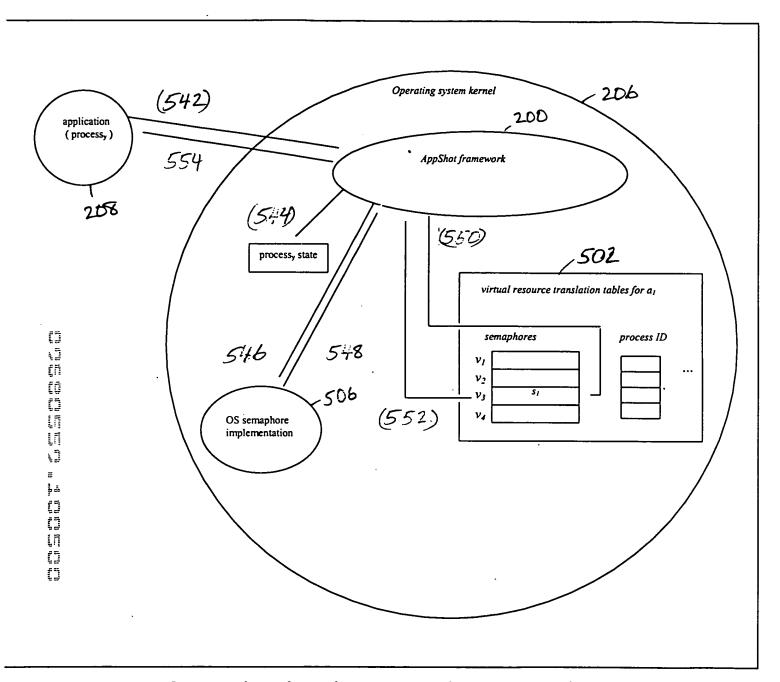
F14.10



Allocation of a virtual resource (i.e. semaphore)



Translation of a virtual resource (i.e. semaphore), virtual to system



Reverse translation of a virtual resource (i.e. semaphore), system to virtual

Flowchart describing creation of virtual translation tables.

F16,14

